



## BM SELF

### HDPE Surfaced Bituminous Self-adhesive waterproofing Membrane

#### DESCRIPTION

**BM SELF** is a polymer modified self-adhesive, flexible, waterproofing and sealing membrane with high density polythene film on its upper side and detachable silicone film which can be found on the underside.

#### PROPERTIES

The upper facing of the coreless waterproofing self-adhesive membrane **BM SELF** serves dual purpose. It acts as reinforcement as well as furnishes extra protection. It is a 150 micron HDPE film, deliberating dimensional stability, breaking strength and providing temperature resistance. It has the following features:

- Cold applied, no heating required
- Easy, swift and clean to install
- Permanent flexibility and safeguard against water
- Effective barrier for both water and vapor
- Absorbs substrate movement

#### USES

- Waterproofing in general, where the use of fire/flame is not possible
- Waterproofing structural concrete and masonry walls
- Waterproofing and protection of underground structures
- Waterproofing membrane for inverted roofing systems
- Waterproofing of balconies, bathrooms, swimming pools, tunnels

#### APPLICATION

##### Installation:

1. Substrate preparation: The substrate must be smooth, clean, and should not have oil/grease and defects or irregularities. This might bruise the membrane. Use of a wire brush or broom is suggested for the removal of dirt, dust or any other contaminants.
2. Priming: Apply **BM Prime SD41** on the substrate and let it dry. Prime only the area which will be covered by the membrane in a particular working day. Repriming is required if the primed areas are not covered with the membrane within 24 hours. Depending on the porosity of the surface the primer should be applied by brush or roller at a rate of 0.3~0.5 Ltr/sq.m. Surfaces such as metal or plastic don't require any primer.
3. Laying of Membrane: - Cement mortar or bitumen mastic must be used to fill up all the angles. Use strips of **BM SELF** membrane to prepare angles, edges, corners, roof penetrations, horizontal joints for reinforcement and better adhesion of the membrane. Slowly and evenly peel back the release film over a width of about 30cm. at the start of the membrane. Gently lay the adhesive side on the substrate and

Plot 16, Shiv Industrial Infrastructure Park, Manjusar, Lamdapura, Nirma Canal Road, Savli-391775  
Vadodara, Gujarat, India

Tel: +91-260-2221251 Fax: +91-260-2221786

Email: [info@bitumag.co.in](mailto:info@bitumag.co.in)

[www.bitumag.co.in](http://www.bitumag.co.in)



press it into contact. To keep the bubbles from forming peel back the release film further simultaneously pressing the membrane firmly against the substrate with a cloth or soft brush starting at the Centre and going towards the edges. Adjacent rolls are aligned and overlapped minimum 65 mm at side and 100mm at ends. Press the overlapped firmly using a rubber roller after removing the silicone release film. **BM SELF** membrane should not be applied below - 5°C. Protect suitably and make sure not to expose it to the external weather.

## STANDARDS

**BM SELF** membranes are designed in accordance with the performance requirements and tolerance level of UEAtc (European Union of Technical Agreement) and ASTM (American Society for Testing and Materials).

## TECHNICAL DATA

PROPERTIES	TYPICAL VALUE	TEST STANDARD
Coating asphalt	Rubber modified self-adhesive asphalt	-
Softening point, °C	105±5	ASTM D-36
Penetration, @25°C, dmm	50±5	ASTM D-5
Low temperature cold flexibility, °C	≤-15	ASTM D-1970
Heat resistance @ 80°C	No flow	ASTM D-5147
Tensile strength ( L/T), ( N/mm <sup>2</sup> )	25/20	ASTM D-882
Elongation at Break ( L/T), %	300/300	ASTM D-882
Tear resistance ( L/T), (N/mm)	125/110	ASTM D-1004
Puncture resistance, ( N)	>200	ASTM E-154
Hydrostatic pressure@5bar (50m)	No leakage	BS EN 12390 (partB)
Lap Joint strength, (N/mm)	1.8 – 2.5	ASTM D-1000
Water absorption, %wt @ 23°C 24hrs	0.15	ASTM D-570
Impermeability to water	Pass	EN 1928
Dimensional stability, ( % )	< 2.5	ASTM D6222

# All values given are subject to 5-10% tolerance

## COVERAGE

Coverage differs depending on the surface condition:

**BM SELF** Flat Areas: 1.1m<sup>2</sup>/m<sup>2</sup> ( Approx.) per layer with min.65mm Overlaps and min.100mm end laps.

Average wastages: 2-3%.

**BM PRIME SD41** Smooth Surface: 0.3-0.5 Ltr/m<sup>2</sup> ( Approx.) will give dry film thickness of 100 microns.

## STORAGE

The rolls must be stored vertically in a covered area, should not be exposed to direct sunlight, UV and other sources of heat. The shelf life of the product is up to 12 months from the date of production. Excessive exposure to sunlight and UV may lead to slumping of the product and reduce its shelf life.

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## HEALTH AND SAFETY

Due to the presence of sticky compounds **BM SELF** membranes can stick to human skin. In cases like these, it can be removed by using soft cloth dipped in a suitable cleaner. If the burn is deeper take medical help immediately.

## SUPPLY

Nominal roll length: 1mx10m & 1mx15m;

Nominal roll width: 1m;

Nominal thickness: 1.5mm, 1.8mm, and 2mm